



ASG-Insight™

Quick Reference Card
Version 6.0

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Source View Facilities

Finding a Dataname

SEARCH | DATA | *dataitem*
(FX *dataitem* / LP *dataitem*)

Show all references to the dataname including all aliases (upper and lower level group items, redefines, and renames). Actions:

- FIND - Highlight and tag all references.
- PRINT - Write information to the List file for printing.

SEARCH | DATA | *dataitem*, DEF
(FX *dataitem* DEF)

Highlight all statements that contain definitions of *dataitem* or its aliases.

Finding the Ripple Effect

SEARCH | DATA | *dataitem*, SIZE
(FX *dataitem* SIZE / LP *dataitem* SIZE)

Show all occurrences of datanames that are directly or indirectly affected by a change in the size of *dataitem*. Actions:

- FIND - Highlight and tag all references.
- PRINT - Write information to the List file for printing.

Using the Cursor Substitution Character (%)

Use the cursor substitution character (%) as a shortcut to include a target name in a command.

When entering a command, type the cursor substitution character (%) where the target should go, then place the cursor on the target in the source and press Enter. Insight replaces the % in the command with the indicated target. For example, to execute the command FX *dataitem* DEF, type FX % DEF on the command line.

In this example, you can also use a PF key (see PF6 in the Suggested PF Key Settings section on this card). Type DEF in the command line, place the cursor on *dataitem*, and press PF6. Insight replaces the % with name of the data item and appends DEF to the FX command before execution.

Multiple cursor substitution characters may be entered in a command to substitute consecutive targets from the source code. This allows substitution of qualified datanames such as:

dataitem OF *group-dataitem*

Cross-referencing Paragraphs

VIEW | PARAGRAPH X-REF | *para-label*
(PREF *para-label*)

Display a cross-reference screen containing the paragraphs and the COBOL verbs that pass control to the paragraph *para-label*.

VIEW | PARAGRAPH X-REF | *para-label*, NEXT
(PREF *para-label* NEXT)

Display a cross-reference screen containing the paragraphs that receive control from *para-label* and the COBOL verbs that transfer control.

(PREF LABELS NEXT)

Display a cross-reference for all paragraphs and sections in a program.

(LP *)

Write a copy of the current Paragraph Cross Reference screen to the List file for printing.

Finding COBOL Transfer Control

SEARCH | BRANCH, [*Option1*], [*Target1*]
(BRANCH or PF10)

Reposition the display to the label referenced in a transfer of control statement (e.g., PERFORM or GO TO) indicated by the cursor position.

SEARCH | BRANCH, [*Option2*]
(BRANCH BACK or PF11)

Reposition the display to the last transfer of control statement where a BRANCH directive was executed.

Finding Functions in a COBOL Program

SEARCH | SUBSET | IO
(FX IO / LP IO)

Show all IO statements. Actions:

- FIND - Highlight and tag all references.
- PRINT - Write information to List file for printing.

SEARCH | SUBSET | CALL
(FX CALL)

Highlight all CALL statements.

SEARCH | SUBSET | COND
(FX COND)

Highlight all conditional statements.

SEARCH | SUBSET | ST
(LP ST)

Write the program structure to the List file for printing.

Subsets

Predefined categories of COBOL verbs:

ASSignment	DEBug	IO
Call	DEFinition	LABEL
Cics	DIRECTive	MAINline
COBOL/370	DIVision	MATH
COBOLII	DL/I	Output
COMment	DM	PARagraph
CONDitional	Entry	PERform
COPY	EXit	RETurn
DB2	FALLthru	SECTION
DDL	Goto	SORTMerge
DEAD	IDMS	SQL
DEADCode	INCLude	Structure
DEADData	Input	TESTed/UNTested

Tree View Facilities

Viewing a Program in Execution Order

VIEW | TREE | MAX
(TV MAX)

Display a program in execution (logical) order.

VIEW | ZOOM IN
(ZI)

Within Tree View, display the next level of program structure.

VIEW | ZOOM OUT

(ZO)

Within Tree View, remove the level of program structure, indicated by the cursor, from the display.

Note: All Search facilities are available in Tree View.

Structure View Facilities

Viewing a Program in Structure View

VIEW | STRUCTURE

(STV)

Present a graphical display of the PERFORM/CALL hierarchy in the program.

VIEW | STRUCTURE | [*Range3*], PROGRAM-INIT

(STV PERFRANGE PROGRAM-INIT)

Display the Structure View of the specified Perform range.

VIEW | STRUCTURE | [*Range5*], *name*

(STV PROGRAM *name*)

Display the Structure View for the specified COBOLII nested program.

VIEW | STRUCTURE | [*Range2*]

(STV ENTRY)

Display the Structure View of the program from all entry points.

Isolating Logic of a Perform Range

SEARCH | PERFORM | *name*

(FX *name* / LP *name* / HI *name*)

Show all possible code that can be executed from the PERFORM, including additional PERFORMs and GO TOs. Actions:

FIND - Highlight and tag all references.

PRINT - Write information to the List file for printing.

HIGH - Highlight additional information without resetting the lines currently highlighted.

Analyzing Logical Execution Paths

LOGIC | SUBSET | EXIT, [*Action3*]

(TRACE EXIT)

Highlight the code that would execute beginning at the cursor location. Pauses at all conditional logic and lets you choose the logic path you want to follow.

(RTRACE)

Continue tracing the logic path from a decision point OR reposition to the last decision point if a TRACE was interrupted.

SEARCH | MARK | TRACK, [*Action4*]

(LP TRACK)

Write the logic path generated by the TRACE facility to the List file for printing.

Analyzing Data Flow

LOGIC | DATA | *dataitem*, MOD, PREV

(FLOW *dataitem* MOD PREV)

Search the logic for previous modifications of *dataitem*, beginning at the current location of the cursor. Different from the Search facility, which follows source order, not execution order.

SEARCH | MARK | NET, [*Action4*]

(LP NET)

Write the logic path generated by the Logic facility to the List file for printing.

Compile/Analyze Source Code

Option 1

When your compile/link JCL resides in a PDS or sequential dataset:

1. FILE | ANALYZE (AN)

Display the Analyze Submit screen.

2. Type the applicable dataset name in the Compile and Link JCL and AKR data set name fields. Make sure the Insight Analyze Feature and the AKR DSN field contain a Y value.

3. Submit or Edit the temporarily altered JCL. **Note:** If you make changes while in the Edit option, type SUB within the Editor to save changes.

Option 2

From the edit session of the compile JCL, type VIASUB in the primary command area to display the Analyze Submit screen. Follow Steps 2 and 3 from Option 1. (You do not need to specify the compile/link JCL.)

Suggested PF Keys Settings

PF1 HELP	PF9 SWAP	PF17 ZOOMIN
PF2 SPLIT	PF10 BRANCH	PF18 ZOOMOUT
PF3 END	PF11 BRANCH BACK	PF19 SC HI PREV
PF4 RPREF	PF12 CURSOR	PF20 SC HI NEXT
PF5 RFIND	PF13 X NHI	PF21 SWAP
PF6 FX %	PF14 SPLIT	PF22 LEFT
PF7 UP	PF15 END	PF23 RIGHT
PF8 DOWN	PF16 PREF	PF24 RECALL xxx *

* Note that xxx may be blank or substituted with these values:

MSG - to recall the last message

CMD - to recall the last command

POP - to recall the last pop-up screen

When blank, these options can be entered on the command line. Pressing the RECALL PF key would then execute the command.

Beginning a Program Understanding Session

Step 1

Source code must first be compiled/analyzed. See Option 1 or Option 2 above.

Step 2

FILE | OPEN | [AKR DSN]

Step 3

Select the desired Analyzed program from the program selection list.

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